

# Quick Plan for Data Collection

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## Objectives

- Overview of Quick Plan
- Installation of Quick Plan
- Running Quick Plan
- Advanced Options
- Assumptions

## Overview

- Quick Plan is a software tool that allows for planning your GPS mission
- Developed by Trimble©
- Allows non-Trimble GPS users to plan their day
- Requires access to current data found on the Internet
- Software - class is taught using Quick Plan (v. 2.35b)

## Tools for Predicting -



Software:



Quick Plan

File:

Current Almanac  
(current.ssf file)

## Software Sources



### Quick Plan

- If you have Pathfinder Office
  - Go to Utilities Menu
- If you do not have Pathfinder Office, you must obtain the software
  - From the Trimble Website  
([http://trimble.com/support\\_trl.asp?Nav=Collection-3629](http://trimble.com/support_trl.asp?Nav=Collection-3629))
  - ... Or get from training CD

## Installing QuickPlan

- Installation Steps
  - Insert Training CD
  - Navigate to /Software/QuickPlan235b
  - Double-click on “QKP235b.exe”
  - Installation defaults to “c:/QuickPlan”
  - Take all defaults



Tip: Those with Pathfinder Office could follow along, but they already have this utility.

## Installing QuickPlan

- Installation Steps (cont.)

- To plan your day, you then need the most current Ephemeris file to complete your mission planning
- Download the most current Ephemeris file (*current.ssf*) from the Trimble website  
[http://trimble.com/support\\_trl.asp?Nav=Collection-3629](http://trimble.com/support_trl.asp?Nav=Collection-3629)



Tip: Depending on Internet connection, you may be given the necessary *current.ssf* file from your instructors.

## Installing QuickPlan

- Installation Steps (cont.)

- Save the *current.ssf* file on your laptop hard-drive:
  - Non-trimble users = save to **c:/QKPLAN**
  - Trimble users = save to  
**C:\Program Files\Common Files\Trimble\Almanacs**

## Running QuickPlan

- **Start Program**
  - Navigate to c:/QKPLAN directory and double click on Plan.exe



## Running Quick Plan

- **Select Date**

Julian date →

Select Date: GPS week 1103

Today (2/28/01) OK

Tomorrow (3/1/01) Cancel

Day after tomorrow (3/2/01)

< Prev month February 01 Next Month >

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

date (julian) Selected date

59 Wed 2/28/01

## Running Quick Plan

### • Select Location

#### File:

- C:\Program Files\Common Files\Trimble\Plan\city.loc
- longitude, latitude order
- minutes

## Running Quick Plan

### Review

**Status**  
 Point: Anchorage  
 Lat 61:11:0 N Lon 150:00:0 W  
 Date: Wednesday, February 28, 2001  
 Threshold Elevation 15 (deg)  
 # SVs able to track: 12 SVs  
 Almanac: CURRENT.SSF 2/27/01  
 Time Zone 'Alaska Std USA' -9:00  
 Sampling Rate: 2 Minutes  
 28 Satellites considered : 1 2 3 4 5  
 6 7 8 9 10 11 13 14 17 18 19 20 21  
 22 23 24 25 26 27 28 29 30 31

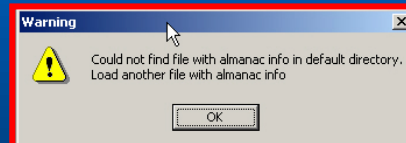
### Modify

**Plan: session-0591**  
 File Session Graphs View Options Help  
 Auto Time...  
 List Times  
 SVs...  
 Almanac...  
 Time Zone...  
 SV Sample Rate...  
 Show Status  
 Report Type  
 Show Report  
 Elevation Mask...  
 # SVs Receiver Can Track...

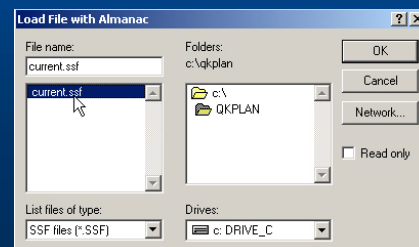
## Running QuickPlan

- Warning

- Trimble's Quick Plan expects the **current.ssf** file to be in one particular place
- You may get this warning



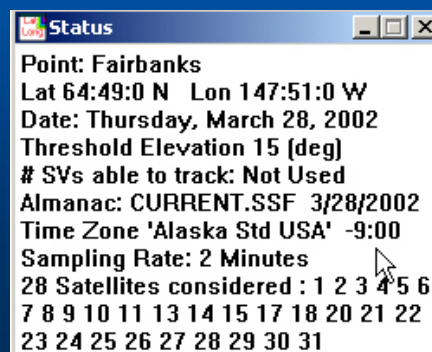
- Press OK and select **current.ssf** in the "C:/QKPLAN" directory
- Press OK

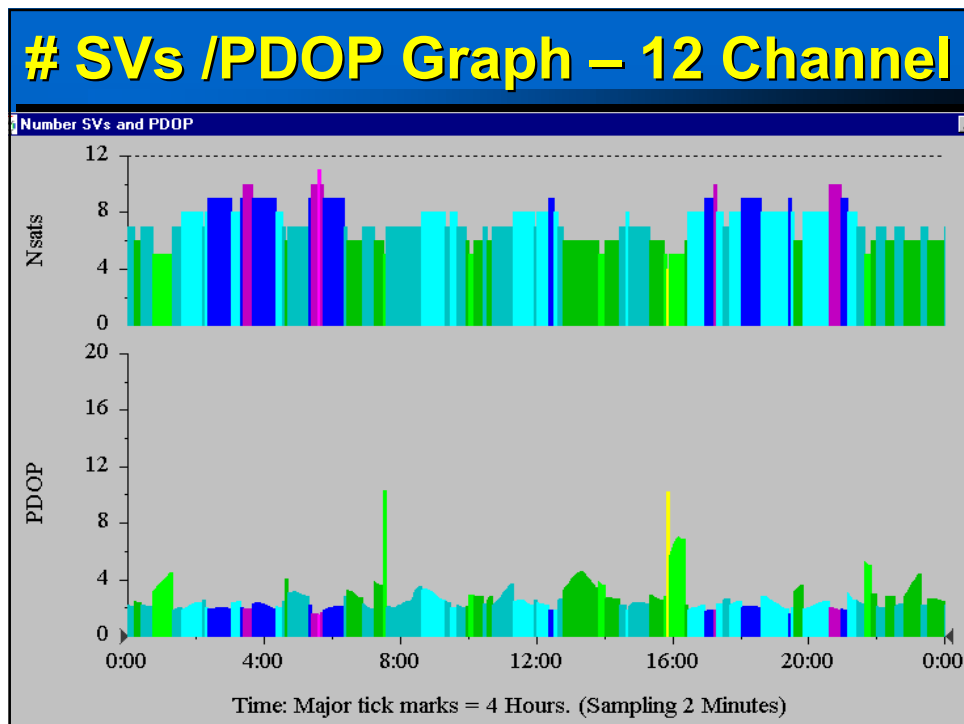


## Running QuickPlan

- Next you should see the Status Box

- Confirm location, time and date
- Under the Graphs pull-down menu select "Number SV's and PDOP"





## Running QuickPlan

- Advanced Features...
  - Next Group of Slides show more Graphs and Views that provide you with more information on your GPS day



## Check It Out

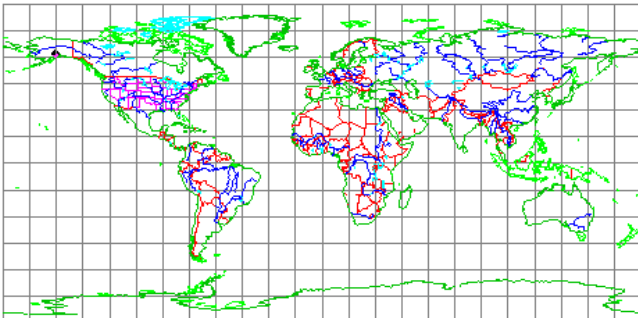
### Select locations from a map

**Select Pt**

Lon -149:48 '  
Lat 61:10 '

Redraw  
Globe  
About...  
mify  
Demagnify

**Note: 1° error in coordinates = 4 minutes error in time**



5000 km Anchorage

☒ Rivers  
☒ Take city

OK  
Cancel

## Check It Out

### Enter locations from the keyboard

**Edit Point - Anchorage -**

**Station Identification**

Name: Glennallen  
Long Name:  
ID:

**Station Position**

Latitude: 62 ° 06 ' 0.00000 " N  
Longitude: 145 ° 30 ' 0.00000 " E  
Height: 0.000 m  
Position Quality: Coordinates Unknown/Undefined  
☒ Usable GPS

OK Cancel Notes... About...

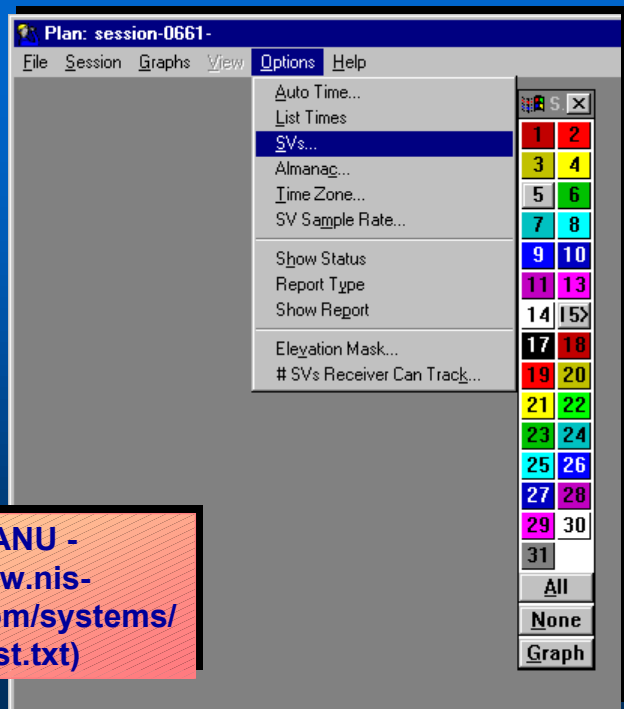
**Note:**

- datum not required
- height not used
- seconds not used

## Check It Out

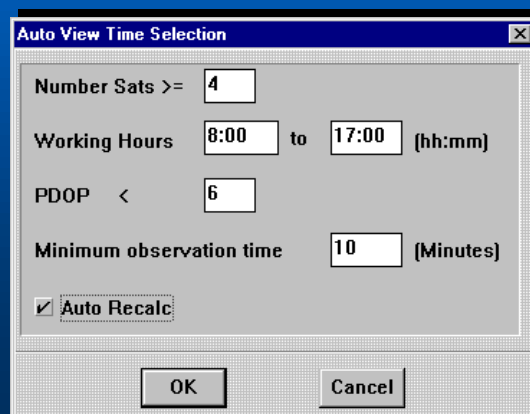
Turn PRN#  
off and on  
according  
to NANUs

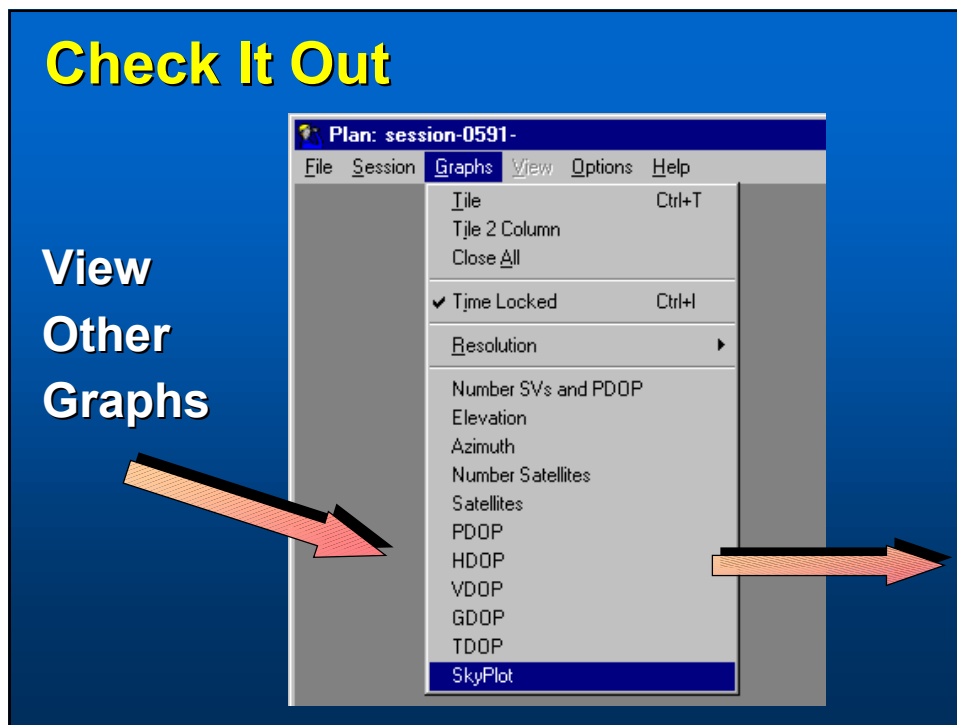
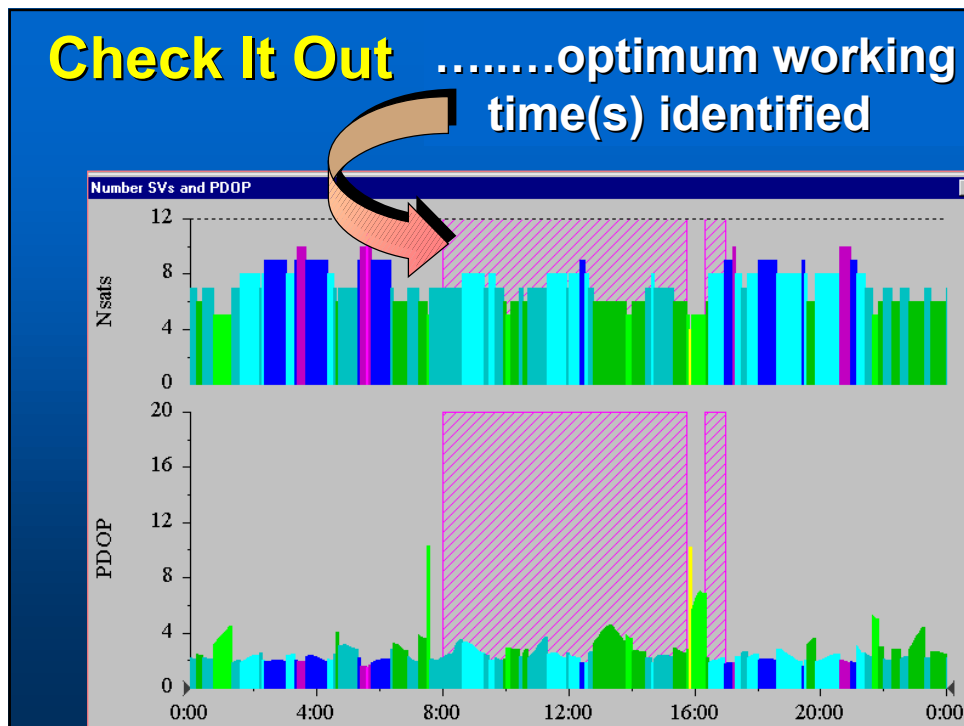
Latest NANU -  
<http://www.nis-mirror.com/systems/gps/Latest.txt>

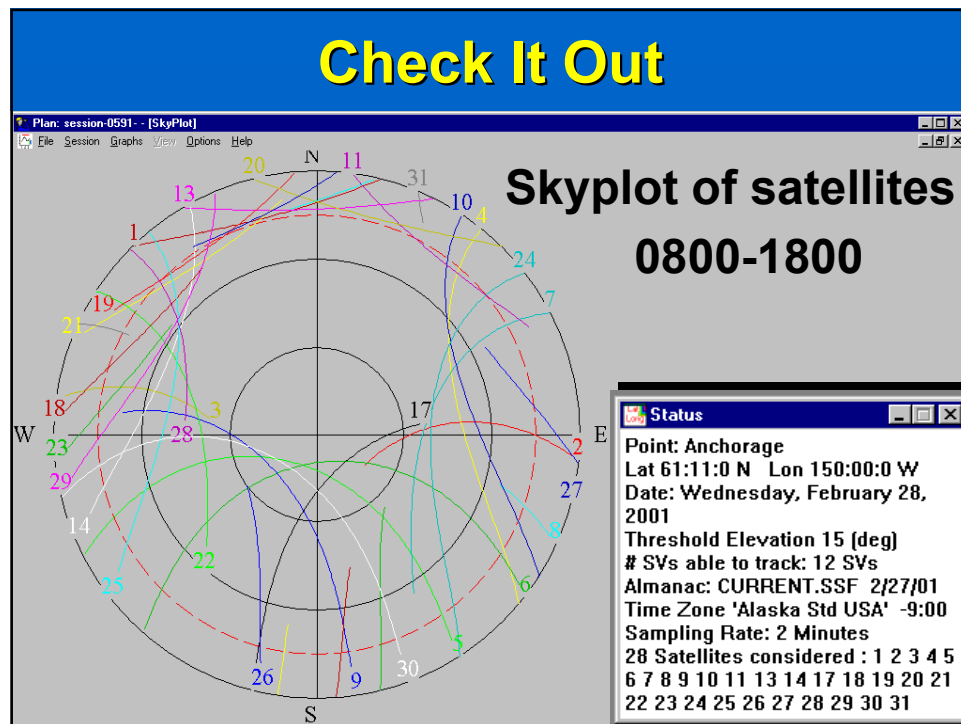


## Check It Out

Identify  
optimum working  
conditions.....







## Assumptions

- Clear view to the sky
- No change in satellite status
- No signal interference

## **It's Your Decision**

### **Reasons not to plan**

- **Plenty of satellites**
- **In a hurry to go**
- **Limited control**
- **Must collect now**

### **Reasons to plan**

- **More efficient**
- **More economical**
- **Forewarned**

## **Quick Plan Summary**

- **Completed Installation of Quick Plan**
- **Downloaded the most current Ephemeris file**
- **Viewed the day's GPS satellite configuration**
- **Next Step**
  - **Now your ready to setup your Garmin Receiver**